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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/537,581	10/07/2005	Steven Bates	2543-1-045PCT/US 5079		
23565	7590 08/08/2006	08/08/2006 EXAMINER			
KLAUBER	& JACKSON	SHEN, BIN			
411 HACKE	NSACK AVENUE		 		
HACKENSA	CK, NJ 07601		ART UNIT	PAPER NUMBER	
			1655		
			DATE MAILED: 08/08/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	on No.	Applicant(s)				
		10/537,5	81	BATES, STEVEN				
Office Action Summary			r	Art Unit				
		Bin Shen		1655				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address \tag{Period for Reply}								
WHIC - Exter after - If NO - Failu Any r	CORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAI issions of time may be available under the provisions of 3 (SIX (6) MONTHS from the mailing date of this communi period for reply is specified above, the maximum statute to to reply within the set or extended period for reply will eply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF T 87 CFR 1.136(a). In no e cation. ory period will apply and v , by statute, cause the ap	HIS COMMUNICATION vent, however, may a reply be tin will expire SIX (6) MONTHS from plication to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	on <i>21 June 2006</i> .						
·	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠ Claim(s) <u>1-11 and 14-22</u> is/are pending in the application.								
4a) Of the above claim(s) <u>4-11 and 14-22</u> is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.							
6)⊠)⊠ Claim(s) <u>1-3</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restrictio	n and/or election	equirement.					
Applicati	on Papers							
9)🛛 :	The specification is objected to by the E	xaminer.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* S	ee the attached detailed Office action for	or a list of the cer	ified copies not receive	ed.				
Attachment			. П					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO	-948)	4) Interview Summary Paper No(s)/Mail Da		•			
3) 🔯 Infom	nation Disclosure Statement(s) (PTO-1449 or PTo No(s)/Mail Date		5) Notice of Informal P 6) Other:		D-152)			

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DETAILED ACTION

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Election

Applicant's election with traverse of Group I, claims 1-3, in the reply filed on 6/21/2006 is acknowledged. The traversal is on the ground(s) that the Groups are not "independent" and "distinct", and there is no search burden. This is not found persuasive because the arguments ("independent", "distinct", "search burden") are not applicable to lack of unity restriction rules (PCT Rule 13.1).

The requirement is still deemed proper and is therefore made FINAL.

The IDS received 9/1/2005, the preliminary amendment received 6/6/2005 have been entered.

Claims 4-11 and 14-22 are nonelected thus are withdrawn from further consideration.

Only claims 1-3 are presented for examination on the merits.

Specification

1. The abstract of the disclosure is objected to because the abstract must be a single paragraph. Correction is required. See MPEP § 608.01(b). A new abstract on a separate page is required to replace the abstract submitted which is the first page of the WO document of the application.

Claim Rejections - 35 USC § 102

`The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Belford et al. (J. Biol. Chem. 1993;268:2444-2450).

Belford et al. teach a method of determining the interaction (activity) of a fungal tRNA ligase enzyme (TRL1) with compounds. Fungal TRL1 is provided as a fusion protein between a full-length yeast tRNA ligase with the carboxyl terminus of the *E. coli* DHFR (page 2445, left column, 3rd full paragraph), candidate compounds are nucleoside triphosphate (NTP: ATP, CTP, GTP, or UTP)TRL1 is incubated with the compounds and interaction of the compounds with TRL1 is determined by splicing reactions (page 2445, right column, 5th full paragraph, and also see specification at the bottom of page 10).

Therefore, the cited reference is deemed to anticipate the instant claims above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belford et al. and Baymiller et al. (Gene 1994;142:129-134), in view of Spaltmann et al. (Drug Discovery Today 1999;4:17-26).

Belford teaches what is above.

Belford does not teach that the TRL1 is from fungus of Candida or Aspergillus species.

Baymiller teaches the isolation and sequence of the tRNA ligase-encoding gene of *Candida albicans*, and suggests that this enzyme provide a good target for antigungal drug search (see title and page 130, left column, end of 1st full paragraph).

Spaltmann teaches that *Candida albicans* is a major human pathogenic fungi (see abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the TRL1 from fungus of Candida as taught by Baymiller in the method of Belford to screen for candidate antifungal compounds that impair TRL1 function because Spaltmann teaches that Candida albicans is a major human pathogenic fungi (see abstract). One would have been motivated to make the modification because Belford specifically described the method used to determine the function of TRL1 and Baymiller suggest that Candida TRL1 provides a good target for antifungal drug search (see title and page 130, left column, end of 1st full paragraph), and would reasonably have expected success in view of Belford and Baymiller's teaching because both methods use fungal TRL1.

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention.

Therefore, the invention as a whole was prima facie obvious to

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one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Conclusion

4. No claim is allowed.

Certain papers related to this application may be submitted to Art Unit 1636 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone number for the Group is 571-273-8300. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business

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For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Any inquiry concerning rejections or objections in this communication or earlier communications from the examiner should be directed to Bin Shen, Ph.D., whose telephone number is (571) 272-9040. The examiner can normally be reached on Monday through Friday, from about 9:00 AM to about 5:30 PM. A phone message left at this number will be responded to as soon as possible (i.e., shortly after the examiner returns to her office).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Terry McKelvey can be reached at (571) 272-0775.

MICHAEL MELLER PRIMARY EXAMINER

B Shen

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